

ADDITION TO SECTION 2.5 OF XL-300 OPERATOR'S MANUAL

For the following XL 300 firmware versions:

XL300	AFW-105826 Rev D
XL300 Barcode	AFW-105841 Rev D
XL300 EAN Barcode	AFW-105776 Rev A
XL300 128 Barcode	AFW-105789 Rev A
T300	AFW-105961 Rev D
T300 Barcode	AFW-105964 Rev D
T300 EAN Barcode	AFW-105777 Rev A
T300 128 Barcode	AFW-105790 Rev A
C300	AFW-105948 Rev E
C300 Barcode	AFW-105963 Rev D
C300 EAN Barcode	AFW-105778 Rev A
C300 128 Barcode	AFW-105791 Rev A
Custom Abbey Home	AFW-106063 Rev A
Custom Source Tech.	AFW-106099 Rev A
Custom FirstData Corp.	AFW-106123 Rev *

Part No. BBF-106115 Rev B

2.5.31a Feature Number 85 - HEAVY FORMS CONTROL

This feature can be used in situations where the user is having difficulty feeding the page perforations of heavy forms past the print head. When feature 85 is enabled, the print head will be moved to a position 2 inches beyond the right margin whenever a formfeed character is processed. When feature 85 is disabled, no print head movement will occur in response to a form feed. The right margin feature must be properly set in order for this feature to function properly.

If feature 4 - bottom margin is set, any paper motion (LF,VT, or FF) causing the paper to be fed beyond the bottom margin will also cause the print head to be moved to a position 2 inches beyond the right margin and a form feed to be executed.

2.5.31b Feature Number 86 - MODEM CONTROL (ASCII ONLY)

This feature will alter the operation of the XON/XOFF and DTR handshaking protocols, of the serial interface, to be more compliant with the data transmission requirements of a modem. The operation of the XON/XOFF handshaking protocol is now dependant on the selection of feature 30 - XON/XOFF Synchronization Protocol, feature 84 - Robust XOFF Protocol, and feature 86 - Modem Control. The operation of the DTR handshaking protocol is now dependant on the selection of feature 31 - DTR Synchronization Protocol and feature 86 - Modem Control.

DTR Protocol

When feature 31 - DTR Synchronization is disabled, the DTR signal will always be in the READY condition.

When feature 31 - DTR Synchronization is enabled and feature 86 - Modem Control is disabled, the DTR signal will operate as a normal handshaking signal and will indicate a BUSY condition when any of the following conditions exist:

- o fifo full
- o paper is out
- o the printer is offline
- o the parallel interface is active (receiving data)

When feature 31 - DTR Synchronization is enabled and feature 86 - Modem Control is enabled, the DTR signal will operate as a modem control signal and will only indicate a BUSY condition when any of the following conditions exist:

- o paper is out
- o the printer is offline
- o the parallel interface is active (receiving data)

XON/XOFF Protocol

When feature 30 - XON/XOFF Synchronization is disabled, no software handshaking occurs.

When feature 30 - XON/XOFF Synchronization is enabled and feature 86 - Modem Control is disabled, XON/XOFF handshaking occurs as follows:

XOFF is sent when

- o the printer is powered down
- o fifo goes full
- o paper goes out
- o the printer goes offline
- o data activity is initiated on parallel interface

XON is sent when

- o the printer is powered up
- o fifo goes not full AND paper in AND printer online
- o paper in occurs AND printer online AND fifo not full
- o printer goes online AND paper in AND fifo not full
- o parallel data activity ceases AND fifo not full AND paper in AND printer online

When feature 30 - XON/XOFF Synchronization is enabled and feature 86 - Modem Control is enabled, XON/XOFF handshaking occurs as follows:

XOFF is sent when

- o fifo goes full

XON is sent when

- o fifo goes not full

When feature 84 - Robust XOFF Protocol is disabled, an XOFF will be sent only once in response to multiple or reoccurring busy conditions. When feature 84 - Robust XOFF Protocol is enabled, XOFFs will continuously be sent in response to multiple or reoccurring busy conditions.